

# SEQUENCE LISTING

<110> Aphton Corporation

<120> Chimeric Peptide for Use as Immunogen

<130> 1102865-0047

<150> 60/202,328

<151> 2000-05-05

<160> 20

<170> PatentIn version 3.0

<210> 1

<211> 10

<212> PRT

<213> synthetic construct

<220>

<221> MOD\_RES

<222> (1)..(1)

<223> Pyroglutamic acid or 5-oxoproline

<220>

<221> MOD\_RES

<222> (10)..(10)

<223> Amidated-glycine or glycinamide

<400> 1

Glu His Trp Ser Tyr Gly Leu Arg Pro Gly

1 5 10

<210> 2

<211> 16

<212> PRT

<213> synthetic construct

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<222> (1)..(16)

PatentIn version 3.0

<223> Amino acid sequence 829-844 of the Tetanus  
Toxoid Precursor (Tentoxylisin)

<400> 2

Met Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu  
1 5 10 15

<210> 3

<211> 20

<212> PRT

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<220>

<221> PEPTIDE

<222> (1)..(20)

<223> Amino acid sequence 378-398 of the Plasmodium  
falciparum circumsporozoite protein

<400> 3

Asp Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe Asn  
1 5 10 15

Val Val Asn Ser  
20

<210> 4

<211> 21

<212> PRT

<213> synthetic construct

<220>

<221> PEPTIDE

<222> (1)..(21)

<223> Amino acid sequence 947-967 of Tetanus  
Toxoid Precursor (Tentoxylisin)

401030" 42341359

<400> 4

Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser  
1 5 10 15

Ala Ser His Leu Glu  
20

<210> 5

<211> 4

<212> PRT

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<400> 5

Gly Pro Ser Leu  
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<210> 6

<211> 6

<212> PRT

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<400> 6

Ser Ser Gly Pro Ser Leu  
1 5

<210> 7

<211> 8

<212> PRT

<213> synthetic construct

<400> 7

Ser Ser Gly Pro Ser Leu Lys Leu  
1 5

<210> 8

<211> 16

"F04050" 4E884860

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<220>  
<221> PEPTIDE  
<222> (1)..(16)  
<223> Amino acid sequence 288-302 of the measles  
virus fusion protein, F

<400> 8

Leu Ser Glu Ile Lys Gly Val Ile Val His Arg Leu Glu Gly Val Glu  
1 5 10 15

<210> 9  
<211> 31  
<212> PRT  
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<220>  
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<222> (1)..(1)  
<223> Amidated Lysine

<220>  
<221> PEPTIDE  
<222> (1)..(15)  
<223> Peptide corresponds to the amino acid sequences 288-302 of the  
measles virus fusion protein, F

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<221> PEPTIDE  
<222> (19)..(22)  
<223> Spacer peptide

<220>  
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<223> Amino acids 2-10 of the human GnRH hormone

<220>

<221> MOD\_RES

<222> (34)..(34)

<223> Amidated glycine or glycineamide

<400> 10

Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser  
1 5 10 15

Ala Ser His Leu Glu Gly Pro Ser Leu His Trp Ser Tyr Gly Leu Arg  
20 25 30

Pro Gly

<210> 11

<211> 28

<212> PRT

<213> synthetic construct

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<221> MOD\_RES

<222> (1)..(1)

<223> Amidated-glutamine

<220>

<221> MOD\_RES

<222> (28)..(28)

<223> Amidated-glycine or glycineamide

<220>

<221> PEPTIDE

<222> (1)..(15)

<223> Amino acid sequence 830-844 of the Tetanus Toxoid Precursor  
(Tentoxylisin)

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<222> (16)..(19)  
<223> Spacer peptide

<220>  
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<222> (20)..(28)  
<223> Amino acid sequence 2-10 of the human GnRH hormone

<400> 11

Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu Gly  
1 5 10 15

Pro Ser Leu His Trp Ser Tyr Gly Leu Arg Pro Gly  
20 25

<210> 12  
<211> 33  
<212> PRT  
<213> synthetic construct

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<222> (1)..(1)  
<223> Amidated aspartic acid

<220>  
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<222> (33)..(33)  
<223> Amidated glycine or glycynamide

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<223> Amino acid sequence 378-398 of the Malaria circumsporozoite  
(CSP) protein

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<222> (21)..(24)  
<223> Spacer peptide

<220>  
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<222> (25)..(33)  
<223> Amino acid sequence 2-10 of the human GnRH hormone

<400> 12

Asp Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe Asn  
1 5 10 15

Val Val Asn Ser Gly Pro Ser Leu His Trp Ser Tyr Gly Leu Arg Pro  
20 25 30

Gly

<210> 13  
<211> 34  
<212> PRT  
<213> synthetic construct

<220>  
<221> PEPTIDE  
<222> (1)..(10)  
<223> Amino acid sequence 1-10 of the human GnRH hormone

<220>  
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<222> (11)..(18)  
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<220>  
<221> PEPTIDE  
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<223> Amino acid sequence 288-302 of the Measles  
virus fusion protein, F







<400> 15

Glu His Trp Ser Tyr Gly Leu Arg Pro Gly Ser Ser Gly Pro Ser Leu  
1 5 10 15

Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu  
20 25 30

<210> 16

<211> 36

<212> PRT

<213> synthetic construct

<220>

<221> MOD\_RES

<222> (1)..(1)

<223> Pyroglutamic acid or 5-oxoproline

<220>

<221> PEPTIDE

<222> (1)..(10)

<223> Amino acid sequence 1-10 of the human GnRH hormone

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<221> PEPTIDE

<222> (11)..(16)

<223> Spacer peptide

<220>

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<222> (17)..(36)

<223> Amino acid sequence 378-398 of the Malaria  
(Plasmodium falciparum) circumsporozoite  
(CSP) protein

"f04050" h28h600

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<220>  
<221> PEPTIDE  
<222> (19)..(34)  
<223> Amino acid sequence 288-302 of the Measles  
virus fusion protein, F

<220>  
<221> PEPTIDE  
<222> (35)..(38)  
<223> Spacer peptide

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<223> Amino acid sequence 2-10 of the human GnRH hormone

<400> 17

Glu His Trp Ser Tyr Gly Leu Arg Pro Gly Ser Ser Gly Pro Ser Leu  
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Lys Leu Leu Ser Glu Ile Lys Gly Val Ile Val His Arg Leu Glu Gly  
20 25 30

Val Glu Gly Pro Ser Leu His Trp Ser Tyr Gly Leu Arg Pro Gly  
35 40 45

<210> 18

<211> 50

<212> PRT

<213> synthetic construct

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> Pyroglutamic acid or 5-oxoproline

<220>  
<221> PEPTIDE  
<222> (1)..(10)  
<223> Amino acid sequence 1-10 of the human GnRH hormone

<220>  
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<220>  
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 <222> (17)..(37)  
 <223> Amino acid sequence 947-967 of the Tetanus Toxoid Precursor  
 (Tentoxylisin)

<220>  
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 <222> (38)..(41)  
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 <223> Amino acid sequence 2-10 of the human GnRH hormone

<220>  
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 <222> (50)..(50)  
 <223> Amidated glycine or glycineamide

<400> 18

Glu His Trp Ser Tyr Gly Leu Arg Pro Gly Ser Ser Gly Pro Ser Leu  
 1                      5                      10                      15

Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser  
                     20                      25                      30

Ala Ser His Leu Glu Gly Pro Ser Leu His Trp Ser Tyr Gly Leu Arg  
                     35                      40                      45

Pro Gly  
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"Tentoxylisin" peptide

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<221> MOD_RES
<222> (46)..(46)
<223> Amidated glycine or glycynamide

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<220>  
<221> PEPTIDE  
<222> (32)..(37)  
<223> Spacer peptide

<220>

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<222> (38)..(46)

<223> Amino acid sequence 2-10 of the human GnRH hormone

<400> 19

Glu His Trp Ser Tyr Gly Leu Arg Pro Gly Ser Ser Gly Pro Ser Leu  
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Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu Ser  
20 25 30

Ser Gly Pro Ser Leu His Trp Ser Tyr Gly Leu Arg Pro Gly  
35 40 45

<210> 20

<211> 51

<212> PRT

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<220>

<221> MOD\_RES

<222> (1)..(1)

<223> Pyroglutamic acid or 5-oxoproline

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<222> (51)..(51)

<223> Amidated glycine or glycineamide

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<222> (1)..(10)

<223> Amino acid sequence 1-10 of the GnRH hormone

<220>

<221> PEPTIDE

<222> (11)..(16)

<223> Spacer peptide



